

Figure 1

SEQ ID NO:1

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GCTGTGGCCACGTGCGCCTGGGTGACCTTCCTCAGATGTGGACTTGGCCCTGAGCATCCT
TCCACCAGGCCCCCTCGCCTGGGTACCATCGAGAAATGCCCGCCTTTGTGTCCAAGTGACA
GCGCAGAGGCAGCTTCCGCTACCGAGATCATCTTCTGGGTACCCGAGTTTCCAGACCAC
TTCTCTTTCCAGCTCTCATGGGAACACAGAAGCTACACTAAGGATGGAAAATGTGGACG
TGAGGGATGAATGGCAGGATGAGGATCTGCCCAGACCGCTCCCAGAAGACACCGGGGTGG
AGCGGCTGGGTGGCGCAGTGGAAAGACTCCTCCTCACCCTCCACCCTGAACTTGAGCG
GAGCACATCGAAAGAGAAAGACGCTGGTGGCTCCAGAGATCAACATCTCCCTGGACCAAA
GCGAGGGCTCTCTGCTGTCCGACGACTTCCTCGACACACCTGATGACCTGGACATCAATG
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CTGGAGTTCTTGGGAAATGGCAATGAACTTGAGTGGGAAGATGACAC
CCCAGTGGCCACCGCCAAAAACATGCCTGGTGACAGTGGGACCTGTTTGGGGACGGCTC
TGCGGAAGACGGCAGTGGGCAACGGTCGTCTGTGGCGAACTGTATCATAGGGGAGCA
AGAGCATCGCATCGACCTGCATATGATCCGGCCCTACATGAAGGTGGTCACCCATGGAGG
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CCAGCTAGGATAACACAGATATGCATTTTGGGCTGACCCAATGAGAGACCCTTTGCTCGG
TTGCCACCTGTCCCTAGCTGGAGCCTCAGATGTCTGGTGGCCCTGGCTGCAGCTGCATCT
GCTTCTCTGTGGAATGTGACCCACTGTCCCCTCTCCCTGCCACCCAGGCAGGGTTGTGA
CTGCTGACCTCACATCTCCACCTGACATGCACTATTCTGCCATTTGACTGTCTTTGGGGG
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Figure 2
SEQ ID NO:2

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TAKNMPGDSADLFGDGS AEDGSAANGRLWRTVIIGE QEHRIDLHMIRP YM
KVVTHGGYYGEGLNAIIVFAACFLPDSSSPDYHYIMENLFLYVISSLELL
VAEDYMIVYLN GATPRRRMPGIGWLKKCYH MIDRRLRKNLKS LIIVHPSW
FIRTVLAISRPFISVKFISKIQYVHSLEELERLIPMEHVQLPDCVLQYEE
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Figure 3

SEQ ID NO:3

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121 cctgcacccc acccaccctt gcacaaaaga gctggcgggc gctggccacg tggccctggg
181 tgaccttcct cggatgcaga atccgcccct gcgagcatcc tcttcctcct aggccttgaa
241 ggcccgggga gcgtgagcga tgcccagctg caccggggca gggctcgcct ttgtttgcca
301 gtaaggagga gaggtgtct cagctgcaga ggggtcatcc ctgcttcaag ccagtgcctc
361 ttcccagctc ccatggggac caccgaagcc acgctccgga tggaaaacgt ggacgtgaag
421 gaggaatggc aggacgaaga tcttcccagg ccactcccag aagagacggg ggtggaactg
481 cttggcagcc cgggtggaaga cacatcctct cctcccaaca cgctaaattt caacggagcg
541 catcgtaaga ggaagacgct ggtggcccca gagatcaaca tttctctgga tcagagtgaag
601 ggggtccctgc tgtccgatga cttcttggtt accctgatg acctggatat taacgtggat
661 gacatcgaga ccccgatga gaccgactcg ctggagttcc tggggaatgg caacgaactg
721 gagtgggaag acgacacccc cgtggccacc gccagaaca tggccgggga cagcgcggat
781 ctatttgggg acggcacgac ggaggacggc agcgcgcgca acgggcgcct gtggcggaca
841 gtgatcatcg gggagcaaga gcaccgtata gacctgcaca tgatccggcc ttacatgaaa
901 gtggtcaccc acggagggtt ctacggcgaa ggcccaacg ccatcatcgt cttcgcagcc
961 tgcttccttc cagacagcag cctccccgac taccactaca tcatggagaa cctcttcctg
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1081 ggtgccacgc cccggcggag gatgcctgga atcggtggc tgaagaagtg ctaccagatg
1141 atcgaccgga ggttgcgga aaacctgaag tccttgatca tcgtccaccc ctcggtggtc
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1321 ccagactgcg tctgcaata cgaagaggaa agactgaagg ccaggaggga gagcgcgagg
1381 cccagccgg agtttgtgct gcccaggctt gaagagaagc cagaggtggc accagtggaa
1441 aacaggtctg ctctgggtctc agaagatcag gaaacaagca tgtcctgagg cgacgtgagc
1501 ataaccaagg acatggaaga agattccaga tgccagaaaa cctctgtcag acgcccactg
1561 gcccagatc tcatcctgcc tcactctgag tcccaatctt ccaagggtgc cagccctctc
1621 gttcatctct gaaaccagc atccttttca gctgcttgaa aacattgtat tttttttttt
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1741 aactcacga actctcagcc gaggaaggca agaagcgag ggggtggccc gcgtggcgctc
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1861 cttctcttgc ttgtcacccg ctccagggtt gagccacaga caccacccgc caccocggct
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2041 tcacacccat ggtttttcat ttgacccgcc ccttctcgc tcataatgac acccagctcc
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2161 attgcaaaat gacaccccag taatctagaa cattctcaag cccctttaac tcagatgtca
2221 agccaccggg caaaccctgt caatacctcc caccaaggaa tgagatatgt ggacctcact
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2761 ggcgtggtgg cagggtgctg taatcccagc tacttgggag gctgaggcat gagaatcact
2821 taaacctgag aggcagaggt tacagtgagc caagatcgtg ccactgcatt ccagcctggg
2881 cgacagagca agactctgtc tcaaaaaaaaa aaaaaaaa

```

Figure 4
SEQ ID NO:4

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LFLYVISSLELLVAEDYMIVYLNATPRRRMPGIGWLKKCYQMIDRRRLRKNLKSIIIV
HPSWFIRTVLAISRPFISVKFINKIQYVHSLEDLEQLIPMEHVQIPDCVLQYEEERLK
ARRESARPQPEFVLPRSEEKPEVAPVENRSALVSEDQETSMS

Comparative Map of Human Chromosome 19p13.3 and mouse Chromosome 10: evidence for an inversion

Cayman ataxia



Figure 5

Figure 6

1 huKIAA1872	MGTTAATLRMENVDV	KEEWQEDLPRPLPE	ETGVELLGSPVEDTS	SPPNTLNFNGAHRKR	KTLVAPEINISLDQS	EGSLLSDDFLDTPDD
2 Macaque	MGTTAATLRMENVDV	KEEWQEDLPRPLPE	ETGVELLGSPVEDTS	SPPNTLNFNGAHRKR	KTLVAPEINISLDQS	EGSLLSDDFLDTPDD
3 mujittery	MGTTAATLRMENVDV	RDEWQEDLPRPLPE	DTGVERLGGAVEDSS	SPPSTLNLGSAHRKR	KTLVAPEINISLDQS	EGSLLSDDFLDTPDD
4 huBNIP2	-----MEGVEL	KEEWQEDDFPIPLPE	DDSIEADILAITGPE	DQPGSLEVN-GNKVR	KKLMAPDISLTLDPS	DGSVLSDDLDDES----
5 muNIP2	-----MEGVEL	KEEWQEDDFPIPLPE	DDSIEADILAITGPE	DQPGSLEVN-GNKVR	KKLMAPDISLTLDPS	DGSVLSDDLDDES----
91	105 106	120 121	135 136	150 151	165 166	180
1 huKIAA1872	LDINVDDIETPDET	SLEFLNGNELEWED	DTPVATAKNMPGDSA	DLFGDGTTEDEGSAAN	GRLWRTVIIIGEQEHR	IDLHMIRPYMKVWVTH
2 Macaque	LDINVDDIETPDET	SLEFLNGNELEWGD	DTPVATAKNMPGDSA	DLFGDGTTEDEGSAAN	GRLWRTVIIIGEQEHR	IDLHMIRPYMKVWVTH
3 mujittery	LDINVDDIETPDET	SLEFLNGNELEWED	DTPVATAKNMPGDSA	DLFGDGAEDGSAAN	GRLWRTVIIIGEQEHR	IDLHMIRPYMKVWVTH
4 huBNIP2	GEIDLGLDTPSE--	-----NSNEFEWED	DLPKPKTTEVIRKGS	ITEYTAAEK----	GRRWRMFRIGEQRHR	VDMKAIEPYKKVISH
5 muNIP2	GEIDLGLDTPSE--	-----NSNEFEWED	DLPKPKTTEVIRKGS	ITEYTAAEK----	GRRWRMFRIGEQRHR	VDMKAIEPYKKVISH
181	195 196	210 211	225 226	240 241	255 256	270
1 huKIAA1872	GGYGGEGLNAIIVFA	ACFLPDSSLPDYHYI	MENLFLYVISSLELL	VAEDYMIIVYLNATP	RRRMPGIGWLKRCYQ	MIDRRRLRKNLKSII
2 Macaque	GGYGGEGLNAIIVFA	ACFLPDSSLPDYHYI	MENLFLYVISSLELL	VAEDYMIIVYLNATP	RRRMPGIGWLKRCYQ	MIDRRRLRKNLKSII
3 mujittery	GGYGGEGLNAIIVFA	ACFLPDSSSPDYHYI	MENLFLYVISSLELL	VAEDYMIIVYLNATP	RRRMPGIGWLKRCYH	MIDRRRLRKNLKSII
4 huBNIP2	GGYGGEGLNAIIVFA	VCFMPDSSQPNRYL	MDNLFKYVIGTLELL	VAENYMIIVYLNATP	RRKMPSLGLWLRKCYQ	QIDRRRLRKNLKSII
5 muNIP2	GGYGGEGLNAIIVFA	VCFMPDSSQPNRYL	MDNLFKYVIGTLELL	VAENYMIIVYLNATP	RRKMPSLGLWLRKCYQ	QIDRRRLRKNLKSII
271	285 286	300 301	315 316	330 331	345 346	360
1 huKIAA1872	VHPSWFIRTVLAISR	PFISVKFINKIQYVH	SLEDLEQLIPMEHVQ	IPDCVLQYEEERLKA	RRESARP-QPEFVLP	RSEEKPEVAPVENRS
2 Macaque	VHPSWFIRTVLAISR	PFISVKFINKIQYVH	SLEDLEQLIPMEHVQ	IPDCVLQYEEERLKA	RRESARP-QPEFVMP	RSEEKPEVAPVENRS
3 mujittery	VHPSWFIRTVLAISR	PFISVKFISKIQYVH	SLEELERLIPMEHVQ	LPDCVLQYEEERLKA	KRESTRPPQPEFLP	RSEEKPEVEEEDRA
4 huBNIP2	VHPSWFIRTLLAVTR	PFISSKFSQKIRYVF	NLAELAEELVPMEYVG	IPECIKQVDQELNGK	QDEPKNEQ-----	-----
5 muNIP2	VHPSWFIRTLLAVTR	PFISSKFSQKIRYVF	NLAELAEELVPMEYVG	IPECIKQVDQELNGK	QDEPKNEQ-----	-----
361	375					
1 huKIAA1872	ALVSEDQETSMS	371				
2 Macaque	APVTEDQETSMS	371				
3 mujittery	AEATEDQETSMS	372				
4 huBNIP2	-----	314				
5 muNIP2	-----	314				

Figure 7

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Table: Kyte & Doolittle
Window: 10 Average: -0.47 Threshold Line: 0.0

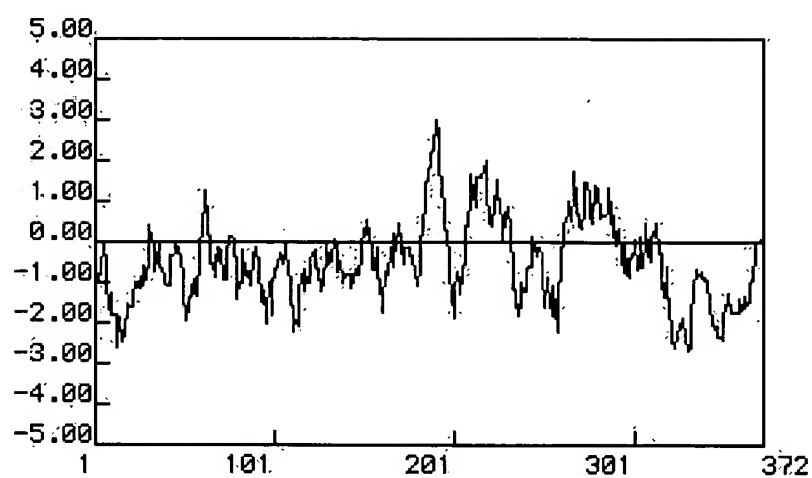


Figure 8
SEQ ID NO:8

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421 gaggaatggc aggacgaaga tcttcccagg ccactcccag aagagacggg ggtggaactg
481 cttggcagcc cgggtggaaga cacatcctct cctcccaaca cgctaaattt caacggagcg
541 catcgtaaga ggaagacgct ggtggcccca gagatcaaca tttctctgga tcagagttag
601 gggctccctgc tgtccgatga cttcttggat acccctgatg acctggatat taacgtggat
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```


Figure 9
SEQ ID NO:9

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LFLYVISSLELLVAEDYMIVYLNATPRRRMPGIGWLKKCYQMIDRRLRKNLKSIIIV
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Figure 10

SEQ ID NO:10

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Figure 11

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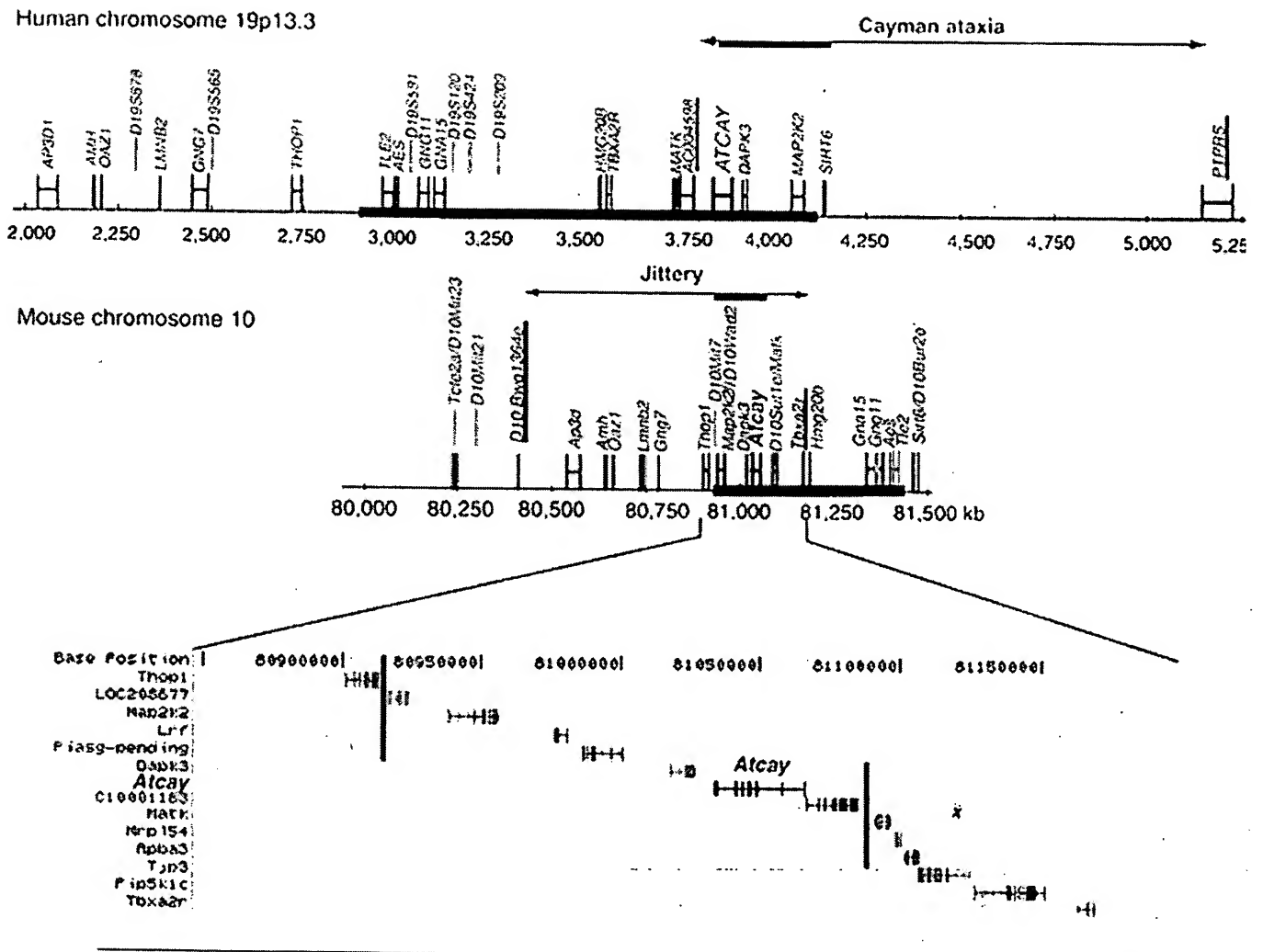
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ccattgcact ccagcctggg caacagagca agatcctgtc tcaaaaaaaa aaacaaaaaa
aaacagcctt tatcatgcca ggtccaatgc cagctttgag ggaaacagag gcaataaga
cagagtcttg gtcccagaag ttttctcaaa tagcaaaggc agggacacatc tcaactggtt
ggaaaacagg tcccagggga caggaaaacc agagaggcca gtactagctg agagcccacc
ccttggcctg gctgggctag tcaccttgt cacctcgttc tctctgtcca cagcgcgagg
cccagccgg agtttgtgct gccaggtct gaagagaagc cagaggtggc accagtggaa
aacaggtagg tgtgcagggg accatgggca gagagctgac agtcacggga ggctgcctac
tcccttgggg gaggttagag aggaagatgg gtccttgttc agggacagaa aatggaacta
agtggccggc catggtggct cagcctgta atcccagcac tttgggagge cgaggtgggc
agatcacatg aggtcaggag ttcgagacca gctggccag catggtgaaa cctcatctct
actaaaaata caaaaattag ctggacatgg tggctcacat ctgtaatccc agctacttgg
gaggccgagg caggagattc gcttgaaccc agggggcaga ggttgcagtg agccagagata
gtaccactgc actcggcgac aaagttagac tccatctcaa aaaaataaat aaacaaataa
aataaaaaata aaaattatcg gccgggtgtg gtggctcacg cctgtaatcc cagtagtttg
ggaggctgag gtgggcccag cacaaggcca agagatcgag accagcctgg ccaacatggt
gaaaccccat ctcttctaaa aatacaaaaa ttagctgggc atggtggctc gtgctgtag
tcccacctac ttggaaggct gaggcaggag aatcacttga acctgggagg cggaggttgc
agtgaagcca gatcagacca ctgcactcca gcctggcgac agaagtagat tctgtctcaa

aaataaataa ataaataaat atcatccagg tgtggtgatg tacaccteta gtccagctac
tcagaagggt gaggcaggca gatggctgga gcccaggagg tcaaggctac agcaagctat
gactgcactc cagcctgggc aacagagcaa gacctgtct caaaaaaaaaa aaaaaagtta
tcatgatgtt ctcatattat cgcaatctca atgttatcat aatgatgaaa ggtgaccttt
gtccagggtcc cagcaggtag attcagactc ccccaatcca gtagaccctg agcaacatta
ttggcttcat tttatgttag tgaagggcct tggccaattt cctcaaaact gtctgtttgg
gtcattttgt tacgcagcag atgcacgctg acatctgttt tgtaccagat acagcagtgt
cggctctcat agggcttaca gcctccacga acaggtagaa aatgcccaag aatgggcact
gtggctcagc cctgtaatcc cagcactttc ggaggccaaa gcaggaggac catttgagggt
caggagtctg agaccaactt gggcaacata ttgagactcc atctctacaa aaagttttaa
agttagccag gcatgatggt gtataccttg tagtcccagc tacttgggag gctgagggtg
gaggatcact tgagcccgga gctggaaget gcagtgagcc atgattgcac cactgcctc
cagcctgggc aacataacaa gacctgtat cttttttttt tttttaagac agattttcac
tcttgtcgcc caggggccag agtgcaatgg tgcgatcttg gctcactgca acctccacct
cccgggttca agcgattctc ctgcctcagc ctcccagta gctgggatta caggcaccca
ccaccacacc cggctaattt ttgtattttt agtagagaca gggttttacc atgttggcca
ggctggtctc gaactcctga cctcaagtga tccaccacc tccagctccc aaagtgtgg
gattatagga atgagccact gcaccacagc aagacctgt atcttaataa taataaataa
ataaaaaataa aataagttaa agaaaaaaaaa gggaaaatgc ccaggctccc aaaaaaagc
aaataacgcc cagtctccgt ctctcctcca caggctctgt ctggtctcag aagatcagga
aacaagggtg gtgtgatgca gagtgtctt cgtgctgttt tcaaaatgtc ctcatggac
ctgtattagt cagggttctc tagaaggaca gaaaatcaaa ccagctgcca gcaaatataa
agcaggcagg gatcctaate ccaggaaaac tgccccatga cttatcgga gtgggggata
cggcacccggg aaggcaggga ggtagtgtt cccttaacca gtcaggccgt ccttgacaa
ctccaggggg gcaccattac ctgaccagg atgcaaatga ggccccagag ttatgcagt
gagcggccct cagggaaaaa ccacacaga gccaaagctc ctgaagccca ggatatgata
ccacaaaagg gtagactgtc cacgctctgc tctcgattct ccacctggt ctggatgcca
agaaaagcct cctgtggcc gggcgagcg tctcacgct gtaatcccag cactttggga
ggcggaggca ggcggatcat ttgaggtcag gagtccaaga ccagcctggg caacatggca
agccccgtc cctaaaaaaaa atacaaaaat tagccagggt agccaagatc gtaccactgc
actccacagc ctgggcaata gggctagact ttgtctcaaa aaaagaaaaa aaaaaggaaa
gaaaagaaaa gcctccctgt gtgttgatgt ccaagggtat cctcaggcac aatggtttgc
cagaaggact cacagagctc agcaaagctg tcatactcac agttatggtt tatcacagt
gcatggttta ttacagtaga aggttacagt taaaaatcag cagagttggg tgtggtggct
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cttgaacctg ggaggcggag gttgcagtga gctgagattg caccattgca ttccagcctg
ggcaacagag caagactctg tttaaaaaaaa aaaaaacaaa aaaacaaaaa acttaacaaa
aggaagaggt gcatagggct ggatccagga gagatcgggt ggaagcctgc aagtgtcctc
tcccagtggt gttgtgtgga cagcctttat ttctcccagc agggatgtgt ggcaaacac
acaaagtgt gccactaga gaagctgacc caagcctttc tagccagggt gtttatagag
agtcaactac atacacctgg ctgactgtct gcatggcttt tcttagcctc cagcccctgc
acagatcaag ctgatgccac gtggcccaag ttccaacct aagtcacgtt gtgagtgtta
ttagtccatt ctcatgctgc tatgaagaaa taccacagac cgggtaaatt ataaagaaaa
gaggtttaat tgactcacag ttctgcatgg ctggggaggc cccgggaaat ttataatcct
ggcgggaagcc acctcttcac caggcagcag gacgagaag tgctgagcaa aggggggaaa
gccccttata aaaccatcag atctcgtgag aactcactac cagagaaca gcatggagggt
agcgcceccc atggttcagt tacctcccac tgagtaccgc ccacgacaag tggggttatg
ggaactacaa ttcaagatga gatttgggtg gggacacagc ccaaccatat cagttagcat
agactatctg gcatgacca catagacact ccagccagga tgctccaaga gtttagaagt
taatcccagg agccaggga ggacaaaact tttctttaga atgtgtggga tttatccttg
accacacagt ttttttgttt tgttttgttt ttgttgttgt tgttgttttt gagatggagt
ctcgtctgt cggccaggct ggagtgcagt ggcattgatct tggctcactg caagctccgc
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tgccaccaca cccagctaat tttttgtatt ttttagtaga gacgggggtt caccatgtta
gccgggatgg tctcgatctc ctgacctcgt gatccaccgc cttcggcctc ccaaagtgt

gagattacag gcgtgagcca ccatgcccag ctgaccacac agttttatac aaatctataa
gatggcctgg ccacatgcct tactacccat gtgaccacag aagctccaag ctaagaaata
aacatcaaaa atggccttag accagtgtg cttaaggggc actgagtaaa agttctcaat
gtattttctga aaagaccacc tcaacccaag ctctctggag atgagttcac atatacagac
agaaaacaca aggaaatcat ccaccatgag caaaagacag cagagacaac aaacagcaga
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taaattggatg gatggatgga tgagtggatg gatggaagga tggttggatg atgggtggat
agatagatga atgaatgagt ggaggatgg gatgagatg ggatgatagg tggatggatg
gatggataaa tggatggatg gatggatgg tgaaggtnn nnnnnnnnnn nnnnnnnnnn
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
nnnnnnnnnn nnnnnnnnga gtgggtgggt ggatggatgg atggatggat ggatggatgg
atggacagat ggatgagtgg gtggatggat ggggtgggcag atggatcaat ggatagggtg
gtggatggat ggatggatgg ttgaatagat ggatgagtgg agggatggat ggatgaatgg
atggatgtgt ggggtgggtgg atgggtggat ggacggatga gtgagtggct ggatgggtgg
gcagagggat gaatggatcc ctccattgag tgaatggatg ggtgagtgag tgtgtggatg
gatggatgga tggatggatg gatggatgga tgggtggatg gatagatgtg tgggtgggtg
tatggttgggt tagttggggg gtgggttgaa gcctccctcc aggtgattg aggttgccag
tctccagggc ctgttctgct gaggcaccag gaaggaggcc ctccagagcca cacttagaaa
gtgggtggca ggagccgggc cctgaagggc atgtgccact cttgctgctg ggagttcacc
cacgtgggt gggatcattg ttttggatta catacatgta gaagcgcat tgcactttt
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tgagcataac aaaggacatg gaagaagatt ccagatgcca gaaaacctct gtcagacgcc
cactggcccc agatctcacc ctgcctcacc ctgagtcacca atcttccaag ggtgccagcc
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ttttttaacg atgcagtatt tgtgcgttcc agaaaagggc ccagctctga gcccctcacc
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gcgtcggtgg cctccgctcc tgcctgcagc ctctgtggtc agagctggat acaagattca
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cggtgggtc tgcgtccttt cctgtgcctt tccctccaga atgcggcctc agccatagaa
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gctcctttga gaggatcaga gccattgca caagaagagc cgctgccaac catccttgtc
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tgtcaagcca ccgggcaaac ccgtcaata cctcccacca aggaatgaga tatgtggacc
tactgctcc cccaacccag cgtcaggtg ggacacgcca acgtgttcc ggggtggaac
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gccacctgca ttcaaagctt ggaccagcgg gttcttgttc gggaggcaaa tttccctagg
aaaaagaaga cagacttttc taatgtgggt caaatgcgga tcaactggtc gatggactct
agaagcactg agtccctgt ctctggaagt atttaagaaa aggtggggcc aggcacgatg
gctcacgcct gtaatcccag actttgggag gccgaggcag gcggatcacc tgagggtgagg
agtttgagaa cagcctggcc aacatggtga aacctcatct ctactaaaaa taaaaaatt
agccaggcgt ggtggcaggt gcctgtaatc ccagctactt gggaggctga ggcattgagaa
tcaattaaac ctgagaggca gaggttacag tgagccaaga tcgtgccact gcattccagc
ctgggcgaca gagcaagact ctgtctcaaa aaaaaataaa aataatcagg gcacagtggc
tcatgcctgt aatcccagca ctctgggagg ctgaggtggg tggatcacct gaggtcagga
gttcaagacc agcctggtga acatggcgaa acccgtctc taataaaaaa aaaaaatta
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tgttgaacc caggaggcag aggttgcatg gatccaagat catgccactg cactccagcc
tgggcaacaa gagcaaaact ccgtctcaaa ataaaaagaa aaaaaagaa tggacagtgt
ttgcagagag ttgctcacga gttccctct aatcctaatt gtcttcatgt ctatcagtct
gagcagacgg tgagtagggc gggcacattc tccaggccct tcttccatg ctctggttg
acctctcagc aagtgtatc caggctgggc caaccagacc cacaattaac tgagcctcag
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acgatgatgg cagggaactg gtggtattta gtgctgagg gcagtgatac agaaagattt
gcctgtggg acagggtcct gcgcgagtc catcccaaa agccagcagc tccctgcatg

aggaagacgg ggtttctgag caggcttatg cctgcagggtt cctgtggagc caccggctgt
gacgggacac ctctgggtct cagcattgcc ctggggaggc tgggacattt agggacatgg
tagggtttta acatttgttt cccaaatgtc aaatcccggg cacaggggca agaccctgtc
ccgaattccc accccagtga atgggtgtgc tgccaaagcc aacacaagat gacaaaagtg
gctgggtacg gtgggtcacg cctataatcc cagcactttg ggagaccgag acagggtggat
cacctgaggt caggagtctg agaccaggct ggccaacatg gtgaaacccc atctctacta
aaaatacaaa aattagctgg gtgtgggtggc gcgcacctgt agtcccagct actcaggagg
ctgaggtaga agaatagtg gaaccagga ggcagagatt gcagtcagcc gagattgcac
cactgcactc cagcctggga gacagagcaa gactgactca aaagaaaaaa atgacagaa
gcctgattat cagactgccc ggaggagaca ggctccagca gatagatgcc agccaggccc
agctgccacg atttgtccca ggtgaccaa ggcacgcagc tccagcatga atcgttctaa
cccaacagtg acaagaactg ctgggcctta accgtcatgg aagactgggg ccgcttccaa
gtcagagaca ggagacgggg acaggaaaga actcattcca cccaatcgga cacctaataa
ttgagtgtct acagcagcaa tcaagtgaca agtgaggccc tacctgacct agaaggtgcc
tgccggctaa acattctgcc cccaccagaa actccagggg gtccgcccgt tatgccgtgg
cccaccacg cccctttgga tcaccagcag tcacagacaa caggcaggcg aaactgaaga
ccccaaactc gcccagcgg accctccaga gcaaaagagg cccccggcga ggccacctgt
cggcaggcat gccgaggtca aacagccggg gccaccgttc ccagctgggc caccacctgc
accgtccaca gatgggcttt gagatggatt tgtatcaggg tgggggggtgt ggtttggcca
aaatgcaatg gaccccgacc cctcctcgta aaaggatgtt gggtttccct ctggtgacac
atgggatgcg tcataaacc tccccaaag tctggtcag cagcccatcc ttccaacgat
gagttttgcg gtttttcaga acagaaatga tcaactacgat tgacgacggt cgtgatgtta
agacgtcgtc tccatgagct ttggggggac ttttatgtgg aataaagaaa ctatcactg

Figure 12



1 ATCAY MGTTEATLRMENVDV KEWQDEDLPRPLPE ETGVLLGSPVEDTS SPPNTLNFNGAHRKR KTLVAPEINISLDQ
 2 ATCAY(Maca)MGTTEATLRMENVDV KEWQDEDLPRPLPE ETGVLLGSPVEDTS SPPNTLNFNGAHRKR KTLVAPDINISLDQ
 3 Atcay MGTTEATLRMENVDV RDEWQDEDLPRPLPE DTGVERLGGAVEDSS SPPSTLNLSGAHRKR KTLVAPEINISLDQ
 6 huKIAA0367 (N-term. end cut off!!)EDVGMDFP EEGV-LSPSAADMRP EPPNSLDLNDTHPRR IKLTAPNINLSLEQ
 7 mu0367homo (N-term. end cut off!!) MDIHF EEGV-LSPSAADMRP EPPNSLDLNGSHPRR IKLTAPNINLSLCC
 4 BNIP2 -----MEGVEL KEWQDEDFPIPLPE DDSIEADILAITGPE DQPGSLEVN-GNKVR KKLMAPDISLTLDP
 8 Bnip2 -----MEGVEL KEWQDEDFPIPLPE DDSIEADTLGTDPD RQPGSLEVN-GNKVR KKLMAPDISLTLDP
 9 DrosCG11593 (N-term. end cut off - only C-terminal end aligned)

91 105 106 120 121 135 136 150 151 165
 1 ATCAY LDINVEDDIETPDETO SLEFLGNNGNELEWED DTPVATAKNMPGDSA DLFGDGTTEGGAAN GRLWRTVIIQEHE
 2 ATCAY(Maca)LDINVEDDIETPDETO SLEFLGNNGNELEWED DTPVATAKNMPGDSA DLFGDGTTEGGAAN GRLWRTVIIQEHE
 3 Atcay LDINVEDDIETPDETO SLEFLGNNGNELEWED DTPVATAKNMPGDSA DLFGDGSASEGGAAN GRLWRTVIIQEHE
 6 huKIAA0367 IDINVELDTPDEAD SPEYTG-----ED --PTAN-KSGQSE SIPEYTAEER--ED NRLWRTVIIQEHE
 7 mu0367homo IDINVELDTPDEAD SPEYTNH-----ED --PTAN-KSSGQSE SIPEYTAEER--ED NRLWRTVIIQEHE
 4 BNIP2 GEIDLDGLDTPSE-- -----NSNEFEWED DLPKPKTTEVIRKG- SITEYTAEER--ED GRRNMFRIQEHE
 8 Bnip2 GEVDLEGLDTPSE-- -----NSDEFEWED DLPKPKTTEVIRKG- SITEYTAEER--GD GRRNMFRIQEHE
 9 DrosCG11593 (N-term. end cut off - only C-terminal end aligned)YTAAEERR--D SRNWQKITLPDGR

181 195 196 210 211 225 226 240 241 25
 1 ATCAY GGYGEGLNAIIVFA ACFLPDSSLPDYHYI MENFLYVISSLELL VAEDYMIIVYLNAGTP RRRMPGIGWLKKCY
 2 ATCAY(Maca)GGYGEGLNAIIVFA ACFLPDSSLPDYHYI MENFLYVISSLELL VAEDYMIIVYLNAGTP RRRMPGIGWLKKCY
 3 Atcay GGYGEGLNAIIVFA ACFLPDSSSPDYHYI MENFLYVISSLELL VAEDYMIIVYLNAGTP RRRMPGIGWLKKCY
 6 huKIAA0367 GGYGEGLNAIIVFA ACFLPDSSRADYHYV MENFLYVISTLELM VAEDYMIIVYLNAGTP RRRMPGLGWMKKCY
 7 mu0367homo GGYGEGLNAIIVFA ACFLPDSSRADYHYV MENFLYVISTLELM VAEDYMIIVYLNAGTP RRRMPGLGWMKKCY
 4 BNIP2 GGYGEGLNAIIVFA VCFMPSSQPNRYL MDNLFKYVIGTLELL VAENYMIIVYLNAGT RRRMPSLGLWLRKY
 8 Bnip2 GGYGEGLNAIIVFA VCFMPSSQPNRYL MDNLFKYVIGTLELL VAENYMIIVYLNAGT RRRMPSLGLWLRKY
 9 DrosCG11593GGY GQNAIVIFC ACHLPDRSRARYSYV MDNLFYVVKTLQL VTDDYVLIYLGGSN RRVNPPFPWLRCY

Sec14/CRALTRIO domain

271 285 286 300 301 315 316 330 331 34
 1 ATCAY VHPSWFIRTVLAISR PFISVKPINKIQYVH SLEDLEQLIPMEHVQ IPDCVLQYEEERLKA RRRESARP-QPEFVL
 2 ATCAY(Maca)VHPSWFIRTVLAISR PFISVKPINKIQYVH SLEDLEQLIPMEHVQ IPDCVLQYEEERLKA RRRESARP-QPEFVM
 3 Atcay VHPSWFIRTVLAISR PFISVKFISKIQYVH SLEELERLIPMEHVQ LPDCVLQYEEERLKA KRESTRPPQPEFLL
 6 huKIAA0367 VHPSWFIRTVLAISR PFISVKFISKIQYVH SLEELERLIPMEHVQ LPDCVLQYEEERLKA KRESTRPPQPEFLL
 7 mu0367homo VHPSWFIRTVLAISR PFISVKFISKIQYVH SLEELERLIPMEHVQ LPDCVLQYEEERLKA KRESTRPPQPEFLL
 4 BNIP2 VHPSWFIRTVLAISR PFISVKFISKIQYVH SLEELERLIPMEHVQ LPDCVLQYEEERLKA KRESTRPPQPEFLL
 8 Bnip2 VHPSWFIRTVLAISR PFISVKFISKIQYVH SLEELERLIPMEHVQ LPDCVLQYEEERLKA KRESTRPPQPEFLL
 9 DrosCG11593VHPTFWIKSLVWMAR PFVSTKFWKLVYVH SLEELGMHVVEKAA IPEKVKQYD--AKRH

361 375
 1 ATCAY ALVSEDQETSMS human 19p13.3
 2 ATCAY(Maca)APVTEDQETSMS - -
 3 Atcay AEATEDQETSMS mouse 10
 6 huKIAA0367 ----- human 9q21
 7 mu0367homo ----- mouse 19 - 66 Mb
 4 BNIP2 ----- human 15q22
 8 Bnip2 ----- mouse 9 - 70 Mb

Figure 13

Figure 14

Genotypes

	◆	■	●	●	■	●	●	●	■	●	●	○
	10n	35	25	31	15	39	37	17	28	21	18	
D19S424	88	18	18	28	28	84	88	88	88	84	43	
D19S209	22	22	22	32	32	21	22	22	22	23	31	
A002R35	22	22	22	22	22	22	22	22	22	21	12	
A008X33	11	11	11	11	11	11	11	11	11	12	22	
21944ata	55	55	55	15	15	55	55	55	55	55	13	
HIBx4	11	11	11	11	11	11	11	11	11	11	12	
4K17CA1	11	11	11	11	11	11	11	11	11	11	36	
A004M07	22	22	22	22	22	22	22	22	--	22	12	
SH3GL1x3b	11	11	11	11	11	11	11	11	11	11	22	
D19S894	44	44	44	44	44	44	44	44	44	44	46	
16492ec1	22	22	22	22	22	22	22	22	22	22	11	
33063CA	11	11	11	11	11	11	11	11	11	11	33	
D19S216	33	33	33	33	33	33	33	33	33	33	25	
16601GT	11	11	11	11	11	11	11	11	11	11	36	
PTPRSx7	--	--	--	--	--	--	22	12	22	22	11	
31646ATA	33	33	33	33	33	33	33	33	33	33	14	
34296GT	22	22	22	22	22	22	22	22	22	22	23	
GAT A66B01*	44	44	44	44	44	44	43	44	42	42	25	
UT1057	33	33	33	33	33	33	33	43	35	35	46	
D19S534	11	11	11	11	11	11	13	11	13	13	32	

Figure 15

Table 2

Marker	Forward	Reverse	Alleles	Size
21944ata	ctggaactacaggaatgtacc	ttctgctcttgcttcacgg	5	411
4k17ca	tgtgttcacctactacctac	aaagaccaaagtctggcag	6	225
31646ata	aaatgcatacctgctgccttc	gatccaatgtgacatgccac	4	210
16601gt	caccagtgacagagaatcctt	tctctgggctgtgtgagagc	6	189
33083ca	atgacaagcactccagcctga	agcttgagtgagccgagat	3	206
16492ec1	gccgtttgacgtgcattgtt	agcaatatccgctcttcctg	2	187
PTPRSX7	gactcctagttgtctccct	cacacatagggacaaagag	2	266
A008X33	agacagagtaagacaaaacacc	gatttgagaagatgtcagttt	2	160
A002R35	tggcttattttctcatc	cacttgctgctgagactct	2	232
HIBx4	gcacgaaaacagactaatacgg	gttgcatcagacctctcc	2	185
XRRC1ca1	ccgatggatctacagttgca	tcttgatgagaaccaactc	6	159
ERRC1ca2	ttacaggagtgagccaccat	aggactcacaagtggttg	7	215
ERRC2ca6	ttgtactcactgtgtgccag	tagtaagccaagatcactccc	4	244
79129ca	ttagaagcccgtgttggaac	ctgtgatttggagtggtgg	7	207
282485ca3	tagtccagggattggcaa	gaagacgtaacatgtccag	2	319
282485ca4	agccctaatactcgttctg	gcaggttgagaataccttg	3	186
82621gt1	tctgctgtagtctctcttc	gactatgaaggagaaagta	6	151